

INTERNATIONAL SEARCH REPORT

Internatlc

Application No

PCT/EP

6585

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J29/76 B01J29/78 C10G45/12 C10G45/34 C10G45/54
 C10G45/64 C10G47/16 C10G65/12 C10G49/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J C10G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/074263 A1 (KOEGLER JOHANNES HENDRIK ET AL) 20 June 2002 (2002-06-20) paragraphs '0007!', '0031!'-'0034! claims 1-3, 6-8, 26-31; examples & WO 03 045548 A (ABB LUMMUS GLOBAL INC.) 05 June 2003 (2003-06-05)	1-6
X	WO 01 17901 A (JANSEN JACOBUS CORNELIS; MASCHMEYER THOMAS (NL); SHAN ZHIPING (NL)) 15 March 2001 (2001-03-15) page 13, line 8 - line 13 claims; example 8	1-5
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

26 September 2003

Date of mailing of the international search report

06/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax (+31-70) 340-3016

Authorized officer

Gosselin, D

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

Continuation of Box I.2

The catalyst according to claims 1 to 5 is defined by reference to acidity indexes, which are defined in the application. The definitions of the acidity indexes given in the application may be regarded as clear and concise. However, no meaningful comparison with the prior art can be made, since the catalysts known in the art for the same purpose are not commonly defined by reference to acidity indexes as defined in the application. Consequently, the subject-matter of claims 1 to 6 does not meet the requirements of Article 6 PCT.

The lack of clarity is such as to render a meaningful complete search impossible. Consequently, the search has been restricted to the compositions of claims 1 to 5 and their use in a process according to claim 6 the acidity indexes having been omitted.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International

Application No

PCT/EP

6585

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002074263	A1	20-06-2002	
		WO 03045548 A1	05-06-2003
		US 2003017943 A1	23-01-2003
		AU 3893900 A	10-04-2001
		BR 0013787 A	27-08-2002
		CA 2384090 A1	15-03-2001
		CN 1387496 T	25-12-2002
		EP 1214272 A1	19-06-2002
		JP 2003508333 T	04-03-2003
		WO 0117901 A1	15-03-2001
WO 0117901	A	15-03-2001	
		AU 3893900 A	10-04-2001
		BR 0013787 A	27-08-2002
		CA 2384090 A1	15-03-2001
		CN 1387496 T	25-12-2002
		EP 1214272 A1	19-06-2002
		JP 2003508333 T	04-03-2003
		WO 0117901 A1	15-03-2001
		US 2003017943 A1	23-01-2003
		US 2002074263 A1	20-06-2002
EP 1106592	A	13-06-2001	
		CN 1287884 A	21-03-2001
		EP 1106592 A1	13-06-2001
		WO 0100547 A1	04-01-2001
US 5800698	A	01-09-1998	
		US 5612273 A	18-03-1997
		US 5817595 A	06-10-1998
		US 5916433 A	29-06-1999
WO 9613563	A	09-05-1996	
		AU 698961 B2	12-11-1998
		AU 3763395 A	23-05-1996
		CA 2200945 A1	09-05-1996
		EP 0788533 A1	13-08-1997
		JP 10508058 T	04-08-1998
		WO 9613563 A1	09-05-1996
US 4612108	A	16-09-1986	
		CA 1272152 A1	31-07-1990
		DE 3676265 D1	31-01-1991
		EP 0216443 A1	01-04-1987
		JP 62034987 A	14-02-1987
		SG 11092 G	16-04-1992
US 4812223	A	14-03-1989	NONE
US 4486296	A	04-12-1984	
		AU 573630 B2	16-06-1988
		AU 3414084 A	18-04-1985
		CA 1226268 A1	01-09-1987
		DE 3463002 D1	14-05-1987
		EP 0140608 A1	08-05-1985
		JP 1785615 C	31-08-1993
		JP 4072579 B	18-11-1992
		JP 60097051 A	30-05-1985
		KR 9108565 B1	19-10-1991
US 4601993	A	22-07-1986	
		CA 1243995 A1	01-11-1988
		DE 3586296 D1	13-08-1992
		DE 3586296 T2	04-03-1993
		EP 0163449 A2	04-12-1985
		JP 1886448 C	22-11-1994

INTERNATIONAL SEARCH REPORT

Internatic

Application No

PCT/EP 0 5585

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J29/76 B01J29/78 C10G45/12 C10G45/34 C10G45/54
 C10G45/64 C10G47/16 C10G65/12 C10G49/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J C10G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/074263 A1 (KOEGLER JOHANNES HENDRIK ET AL) 20 June 2002 (2002-06-20) paragraphs '0007!', '0031!'-'0034!' claims 1-3, 6-8, 26-31; examples & WO 03 045548 A (ABB LUMMUS GLOBAL INC.) 05 June 2003 (2003-06-05)	1-6
X	WO 01 17901 A (JANSEN JACOBUS CORNELIS; MASCHMEYER THOMAS (NL); SHAN ZHIPING (NL)) 15 March 2001 (2001-03-15) page 13, line 8 - line 13 claims; example 8 <div style="text-align: center;">-/-</div>	1-5



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

26 September 2003

Date of mailing of the international search report

06/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Gosselin, D